HOUSE . . . . . No. 1150

By Mr. Kujawski of Webster, petition of Paul Kujawski relative to promoting safety in the teaching of technology in the public schools. Education.

The Commonwealth of Massachusetts

In the Year Two Thousand and Five.

AN ACT RELATIVE TO PRESERVING AND PROMOTING THE SAFE TEACHING OF TECHNOLOGY EDUCATION IN PUBLIC SCHOOLS.

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

SECTION 1. Notwithstanding any general or special law to the contrary, all school building construction projects, whether new construction, reconstruction or remodeling, authorized after January 1, 2004 under chapter 70B of the General Laws shall provide adequate and safe space for teaching technology education. All adequate and safe teaching spaces for teaching technology education shall include: an engineering design area; a fabrication area and an instructor's office.

For purposes of providing an adequate and safe teaching space for technology education, all areas must include a glass partition with door access between the engineering/design and fabrication areas; adequate ventilation; air, dust, air cleaning and emissions controls; communication (voice and data) and network capability to include internet access; adequate data ports in all areas; an adequate, flexible and expandable electrical power, including ceiling drops and "e" power off buttons in all areas and compressed air (100 lbs minimum).

"Adequate and safe", for purposes of middle and high schools, shall be defmed as the following for:

(a) ENGINEERING DESIGN AREA (Instructional, Research & Design): (1) 1,500 sq. feet (minimum); (2) HVAC controlled atmosphere; (3) sink with hot & cold water; (4) 100 sq. feet (minimum) storage area (materials & projects); (5) 100 sq. feet (min-

imum) secure storage area (supplies); (6) vinyl composition tile floor (no carpeting); (7) adequate furnishings (work stations, desks, chairs, etc.) to meet programmatic needs; (8) surge protection on all computer equipment in the lab; (9) all networking equipment (servers, hubs and switches) to have battery and generator back up power.

(b) FABRICATION AREA (Prototyping, Manufacturing, Construction): (1) minimum of 2,000 sq. feet; (2) minimum ceiling height of 12 feet; (3) sink with hot and cold water; (4) ground level location; (5) outside access with door (6 feet minimum); (6) 100 square feet (minimum) secure storage area (tools and equipment); (7) 100 square feet (minimum) storage area (materials and projects); (8) concrete floor; (9) six flat work surfaces of 5'x4' minimum dimension; (10) propane gas available; (11) adequate tools, machines and equipment to meet the fourth requirement of the Department of Education's Technology/Engineering Framework.

(c) INSTRUCTOR'S OFFICE: (1) minimum 100 sq. feet; (2) must have clear view of engineering design and fabrication areas; and (3) a lockable door.

SECTION 2. This act shall take effect immediately upon passage.